

Please type a plus sign (+) inside this box → [+]

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	Based on 09/309,891
				Filing Date	May 11, 1999
				First Named Inventor	Jun KOYAMA, et al.
				Group Art Unit	2812 2822
				Examiner Name	Richard Booth SOWARD
Sheet	1	of	4	Attorney Docket Number	0756-7255

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
MS		5,594,569		Konuma et al.	01/14/97	
		6,108,056		Nakajima et al.	08/22/00	
		5,982,348		Nakajima et al.	11/09/99	
		4,510,515		Kajita et al.	04/09/85	
		5,923,963		Yamanaka	07/13/99	
		5,431,773		Ikeda et al.	07/11/95	
		5,999,155		Satou	12/07/99	
		4,127,792		Nakata	11/28/78	
		4,952,031		Tsunoda et al.	08/28/90	
		6,172,671		Shibuya et al.	01/09/01	
		6,271,818		Yamazaki et al.	08/07/01	
		5,250,931		Misawa et al.	10/05/93	
		6,063,654		Ohtani	05/16/00	
		6,100,562		Yamazaki et al.	08/08/00	
		6,180,439		Yamazaki et al.	01/30/01	
MS		6,225,152		Yamazaki et al.	05/01/01	
		5,888,858		Yamazaki et al.	03/30/99	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
MS		Furue et al., "Characteristics and Driving Scheme of Polymer-Stabilized Monostable FLCSD Exhibiting Fast Response Time and High Contrast Ratio with Gray-Scale Capability," SID 1998.	
		Yoshida et al., "A Full-Color Thresholdless Antiferroelectric LCD Exhibiting Wide Viewing Angle with Fast Response Time," 1997 SID DIGEST, pp. 841-844.	
MS		Inui et al., "Thresholdless Antiferroelectricity in Liquid Crystals and its Application to Displays," J. Mater. Chem., 6(4), 1996, pp. 671-673.	
		Ohtani et al., "LP-B Late-News Poster: A 60-in. HDTV Rear-Projector with Continuous-Grain-Silicon Technology," 1998, pp. 467-470, SID 98 DIGEST.	

Examiner Signature	<i>[Signature]</i>	Date Considered	8-20-05
-----------------------	--------------------	--------------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → [+]

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	
				Based on 09/309,891	
				Filing Date	
				May 11, 1999	
				First Named Inventor	
		Jun KOYAMA, et al.			
Group Art Unit		2812 2822			
Examiner Name		Richard Booth SOWARD			
Attorney Docket Number		0756-7255			
Sheet	2	of	4		

U.S. PATENT DOCUMENTS						
Examiner Initials [*]	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
[Signature]		6,432,756		Ohtani et al.	08/13/02	
		6,165,824		Takano et al.	12/26/00	
		6,162,704		Yamazaki et al.	12/19/00	
		6,153,445		Yamazaki et al.	11/28/00	
		6,420,246		Yamazaki et al.	07/16/02	
		6,133,075		Yamazaki et al.	10/17/00	
		6,197,626		Yamazaki et al.	03/06/01	
		6,294,441		Yamazaki	09/25/01	
		6,300,659		Zhang et al	10/09/01	
		6,303,415		Yamazaki	10/16/01	
		6,303,963		Ohtani et al	10/16/01	
		6,307,214		Ohtani et al	10/23/01	
		6,316,789		Yamazaki et al	11/13/01	
		6,316,810		Yamazaki et al	11/13/01	

FOREIGN PATENT DOCUMENTS						
Examiner Initials [*]	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number ⁴ Kind Code ⁵ (if known)			
[Signature]		JP	05-109737		04/30/93	Full

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials [*]	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²

Examiner Signature	[Signature]	Date Considered	8-20-05
--------------------	-------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → [+]

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	Based on 09/309,891
				Filing Date	May 11, 1999
				First Named Inventor	Jun KOYAMA et al
				Group Art Unit	2812 2822
Examiner Name	Richard Booth Soward				
Sheet	3	of	4	Attorney Docket Number	0756-7255

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
[Signature]		6,291,275		Yamazaki et al	09/18/01	
		6,077,731		Yamazaki et al	06/20/00	
		6,287,900		Yamazaki et al	09/11/01	
		5,773,327		Yamazaki et al	06/30/98	
		6,194,255		Hiroki et al	02/27/01	
		5,789,284		Yamazaki et al	08/04/98	
		6,153,445		Yamazaki et al	11/28/00	
		6,100,562		Yamazaki et al	08/08/00	
		6,093,934		Yamazaki et al	07/25/00	
		6,111,557		Koyama et al	08/29/00	
		6,156,628		Ohnuma et al	12/05/00	
		5,915,174		Yamazaki et al	06/22/99	
		5,897,347		Yamazaki et al	04/27/99	
		5,608,232		Yamazaki et al	03/04/97	
		5,529,937		Zhang et al	06/25/96	
		6,160,268		Yamazaki	12/12/00	
		6,133,119		Yamazaki	10/17/00	
		6,156,590		Yamazaki et al	12/05/00	
		6,121,660		Yamazaki et al	09/19/00	
		6,087,679		Yamazaki et al	07/11/00	
		6,072,193		Ohnuma et al	06/06/00	
		5,956,579		Yamazaki et al	09/21/99	
		5,977,559		Zhang et al	11/02/99	
		6,133,075		Yamazaki et al	10/17/00	
		6,133,073		Yamazaki et al	10/17/00	
		6,084,247		Yamazaki et al	07/04/00	
		6,027,987		Yamazaki et al	02/22/00	
		5,961,743		Yamazaki et al	10/05/99	
		6,063,654		Ohtani	05/16/00	
		6,077,758		Zhang et al	06/20/00	

Examiner Signature	[Signature]	Date Considered	8/20/05
-----------------------	-------------	--------------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → [+]

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	Based on 09/309,891		
		Filing Date	May 11, 1999		
		First Named Inventor	Jun KOYAMA et al		
		Group Art Unit	2812 2822		
Sheet	4	of	4	Examiner Name	Richard Booth <i>SOWARD</i>
				Attorney Docket Number	0756-7255

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
MB		6,066,518		Yamazaki	05/23/00	
		5,985,740		Yamazaki et al	11/16/99	
		6,048,758		Yamazaki et al	04/11/00	
		6,071,764		Zhang et al	06/06/00	
		6,165,824		Takano et al	12/26/00	
		5,949,115		Yamazaki et al	09/07/99	
		5,639,698		Yamazaki et al	06/17/97	
		6,071,766		Yamazaki et al	06/06/00	
		5,700,333		Yamazaki et al	12/23/97	
		5,814,540		Takemura et al	09/29/98	
		5,869,363		Yamazaki et al	02/09/99	
		5,888,858		Yamazaki et al	03/30/99	
		5,893,730		Yamazaki et al	04/13/99	
		6,225,152		Yamazaki et al	05/01/01	
		6,232,205		Ohtani	05/15/01	
		6,251,712		Tanaka et al	06/26/01	
		6,232,621		Yamazaki et al	05/15/01	
		6,242,290		Nakajima et al	06/05/01	
		6,218,219		Yamazaki et al	04/17/01	
		6,197,624		Yamazaki	03/06/01	
	6,162,704		Yamazaki et al	12/19/00		
	6,201,585		Takano et al	03/13/01		
	6,168,980		Yamazaki et al	01/02/01		
	6,184,559		Hayakawa et al	02/06/01		
	6,204,154		Zhang et al	03/20/01		
	6,207,969		Yamazaki	03/27/01		
	6,204,101		Yamazaki et al	03/20/01		

Examiner Signature	<i>John M. Soward</i>	Date Considered	8-20-03
-----------------------	-----------------------	--------------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.